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(71) Applicant: **TOYOTA MOTOR CORP**

(72) Inventor: **INAGAKI TAKAFUMI**
UEDA MASAHIRO

(54) **DIAGNOSIS DEVICE OF ELECTRONIC CONTROL
TYPE SPEED CHANGE GEAR FOR VEHICLE**

(57) Abstract:

PURPOSE: To execute a self-diagnosis of an electronic speed change gear whose maintenance and repair can be executed easily and quickly by outputting a prescribed signal in accordance with whether a fault of a car speed sensor and a hydraulic pressure controlling solenoid exists or not, and whether a car speed is above or below a prescribed value.

CONSTITUTION: Corresponding speed change step use solenoids 9W7 of a hydraulic pressure device 6 are energized through driving circuits 16W18 controlled by a microcomputer 10, an existence signal of electric conduction to the solenoids 9W7 is inputted, and the computer 10 decides a fault of the solenoids 9W7. On the other hand, outputs of two groups of car speed sensors 11, 12 are compared, a fault of the sensors 11, 12 is decided, and these faults are stored by a necessary code in an RAM contained in the computer 10. In this state, when a car speed is above a prescribed value, when it is below the prescribed value and stops, and in case when there are no stored contents, a speed change step signal based on electric conduction of the solenoids 9W7, the contents of the RAM, and an output of a throttle opening sensor 13 are outputted as a result of a self-diagnosis,

respectively, and the maintenance and repair of an electronic control type speed change gear can be executed easily and quickly.

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